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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	09/852,837	
	Filing Date	05-10-2001	
	First Named Inventor	TAN, THOK LIN	
	Group Art Unit	2685	
	Examiner Name	LE, LANA	
Total Number of Pages in This Submission	13	Attorney Docket Number	EN11176

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input checked="" type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Refund	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below): - COPY OF AMENDMENT SUBMITTED 11/23/04 - COPY OF FAX CONFIRMATION SHEET
Remarks: Sent via fax to 703-872-9306 on 7-8-05 BP		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual name	Philip H. Burrus, IV Registration No.: 45,432	
Signature		
Date	7/6/2005	

CERTIFICATE OF MAILING		
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: <input type="text"/>		
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PTO/SB/89 (12-97)

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## PETITION ROUTING SLIP

(Find the petition from the list and check the box in the heading above the petition)

## Complete if Known

Application Number	09/052,837
Filing Date	05-10-2001
First Named Inventor	TAN, THOR LIU
Group Art Unit	2685
Examiner Name	LE, LANA
Attorney Docket Number	EN1176

## PETITIONS DECIDED BY PETITIONS OFFICE

- 301 Relating to Public Use Proceedings (37 CFR 1.262)
- 302 To make application special - prospective manufacture (37 CFR 1.102, MPEP 708.02)
- 303 To make special - infringement (37 CFR 1.102, MPEP 108.02)
- 304 Relating to the Filing/Rescission of Divisional Release (37 CFR 1.177)
- 305 To waive or suspend rules (37 CFR 1.183)
- 306 To expunge a paper from patent application or patent file (37 CFR 1.49)
- 307 Withdrawal of Attorney (37 CFR 1.36)
- 308 For extension to application except re proceedings before Board (37 CFR 1.10, MPEP 103.104)
- 309 Relating to Small Entity (37 CFR 1.28)
- 310 Relating to recommendation (37 CFR 1.181-1.183)
- 311 For correction of inventorship for applications - no filing date (37 CFR 1.48)
- 312 For correction of inventorship re PCT applications (37 CFR 1.48)
- 313 For filing application without one or more inventors (37 CFR 1.47)
- 314 For filing PCT application without one or more inventors (37 CFR 1.47)
- 315 For extension of time without fee in cases in Application Division (37 CFR 1.138(b))
- 316 For matters before AIC for Patents - not specified
- 408 Relating to a filing date under 35 USC 1118, 37 CFR 1.53
- 411 Filing date for application filed by Express Mail (37 CFR 1.10)
- 412 Filing date for best application
- 491 To revive an abandoned application - unavoidable delay (37 CFR 1.137(a))
- 492 To revive an abandoned application - unintentional abandonment (37 CFR 1.137(b))
- 503 To waive/suspend rules (37 CFR 1.183)
- 504 To invoke supervisory authority - re patent examining operations (37 CFR 1.181)
- 505 To withdraw from issue after payment of issue fee (37 CFR 1.313(a)(1-4))
- 506 To withdraw from issue after payment of issue fee (37 CFR 1.313(b)) or abandon application in favor of continuing application
- 507 To enter priority papers after issue fee payment (37 CFR 1.55(a))
- 508 To enter sequences of patent (37 CFR 1.214)
- 515 To invoke supervisory authority - re Office of Admin. (37 CFR 1.181)
- 516 To waive/suspend rules re patent matters in Office of Admin. (37 CFR 1.183)
- 519 To decide matters before Deputy AIC for Patents under 37 CFR 1.182
- 521 To review refusal to accept a record maintenance fee - application filed on or after 8/27/82 (37 CFR 1.377)
- 523 To issue patent in the name of the Assignee (37 CFR 1.334(d))
- 529 To withdraw a holding of abandonment (37 CFR 1.101)
- 536 To order a Commissioner-initiated Reexamination proceeding (37 CFR 1.520)
- 537 To convert Provisional Application
- 538 To reinstate abandoned Provisional Application
- 539 PCT Section-Unavailable
- 531 PCT Section-Unintentional
- 532 To accept unavoidably delayed payment of maintenance fee (37 CFR 1.378 (b))
- 533 To accept unintentionally delayed payment of maintenance fee (37 CFR 1.378 (c))
- 534 Petitions related to reexamination proceedings
- 599 For matters before the Deputy AIC for Patents - not specified

## PETITIONS DECIDED BY THE GROUP DIRECTOR

- 601 To make application special on ground of age or health (37 CFR 1.102, MPEP 708.02)
- 602 To make special - continuity of earlier application (37 CFR 1.102, MPEP 708.02)
- 603 To make special - environment quality program (37 CFR 1.102, MPEP 708.02)
- 604 To make special - accelerated examination (37 CFR 1.102, MPEP 708.02)
- 605 To make special - Energy Program (37 CFR 1.102, MPEP 708.02)
- 606 To make special - Recombinant DNA (37 CFR 1.102, MPEP 708.02)
- 607 To make special for reasons not provided for in codes 601-606 (37 CFR 1.102, MPEP 708.02)
- 608 To reduce prosecution after Board decision (37 CFR 1.188)
- 609 For review of final restriction requirement (37 CFR 1.144)
- 610 Invoking Authority of Commissioner under 37 CFR 1.181 not specified in codes
- 611 Relating to the prematureness of final rejection (37 CFR 1.101, MPEP 703.07(c))
- 612 Relating to the refusal to enter an amendment (37 CFR 1.181 & 1.127, MPEP 714.18)
- 613 To withdraw a holding of abandonment (37 CFR 1.137, MPEP 711.03)
- 614 Relating to a requirement to cancel new matter from application (37 CFR 1.181, MPEP 608.04(c))
- 615 Relating to formal sufficiency/propriety of affidavits (37 CFR 1.131, 1.132, 1.503, MPEP 715.07)
- 616 To institute an interference (37 CFR 1.505)
- 617 Relating to refusal to enter an amendment under 37 CFR 1.312
- 618 For concurrent Ex parte and Inter partes proceedings (37 CFR 1.212)
- 619 For return of original copy of patent application (MPEP 604.04(e))
- 620 For extension of time (37 CFR 1.138(b))
- 621 For interview after Notice of Allowance mailed (MPEP 713.10)
- 622 Concerning appeal application before transfer of jurisdiction to Board (MPEP 1208)
- 623 For second or subsequent suspension of action (37 CFR 1.103, MPEP 705)
- 625 To reinstate Appeals Continued in Group
- 626 From denial of reexamination request (37 CFR 615(c))
- 627 To enter an amendment after payment of issue fee (37 CFR 1.312(b))
- 628 From refusal to issue a Certificate of Correction (37 CFR 1.181, MPEP 1480-1485)
- 629 For withdrawal of attorney from application pending in group (37 CFR 1.36)
- 630 For extension of time in a recommendation (37 CFR 1.520(c))
- 631 To merge multiple reexamination proceedings (37 CFR 1.505(c), MPEP 2243)
- 632 To effect a second conversion of inventorship (37 CFR 1.48, MPEP 201.03)
- 633 Superconductivity
- 634 To correct inventorship in a patent not in interference (37 CFR 1.324, MPEP 1481)
- 635 To change inventorship in an application (37 CFR 1.48)
- 636 To change inventorship in a patent (37 CFR 1.48)
- 637 To withdraw from issue before payment of an issue fee (37 CFR 1.313(a))
- 639 For matters before Group Director - not specified

## PETITIONS DECIDED BY BOARD OF PATENT APPEALS AND INTERFERENCES

- 701 To exercise supervisory authority re action by examiner/examiner-in-chief (37 CFR 1.644)
- 702 To accept belatedly filed copies of interference settlement agreements (35 USC 136(n), 37 CFR 1.568(c))
- 703 For withdrawal of attorney in proceeding under 37 CFR 1.201 - 1.288 (37 CFR 1.38)
- 704 For access to a settlement agreement under 35 USC 135(c) (37 CFR 1.658(b))
- 705 For access to an application in proceedings before the Board (37 CFR 1.14(a))
- 706 From a refusal to issue a Certificate of Correction (37 CFR 1.222, 1.223)
- 707 To correct errors in inventorship (37 CFR 1.324)
- 708 For extension of time to file amendment under 37 CFR 1.188(b) (37 CFR 1.138)
- 709 To make an application before the Board special (37 CFR 1.102)
- 710 For extension of time to file supplemental Reply Brief (37 CFR 1.136)
- 711 To assign particular members to hearing or to request fragmented panel (35 USC 7)
- 712 To decide miscellaneous questions in proceedings under 37 CFR 1.601-1.688
- 713 To accept priority papers in applications in interference (37 CFR 1.644)
- 714 To reinstate an Appeal
- 759 For matters before Chairman of Board - not specified
- 801 To make an application before the Board special (37 CFR 1.102)
- 802 To reinstate an Appeal
- 803 To extend time/suspend proceedings (37 CFR 1.196, 1.197, 1.304)
- 804 For extension of time to file supplemental Reply Brief (37 CFR 1.136)
- 805 To accept late request for an Oral Hearing (37 CFR 1.156)
- 809 For matters before the Clerk of the Board - not specified

## PETITIONS DECIDED BY SPECIAL LAWS (SECURITY AND GOVERNMENT INTEREST MATTERS)

- 901 Under 42 USC 2182
- 902 Under 42 USC 2457
- 903 Under 39 USC 184
- 904 Under 35 USC 257
- 905 To consider review security or Government interest matters - not specified

## PETITIONS DECIDED BY THE SOLICITOR

- 951 Petitions for extension of time in court matters 35 USC 142, 145, 148
- 952 Petitions relating to ex parte questions in cases before the Court of Appeals for the Federal Circuit
- 953 Requests filed under the Freedom of Information Act
- 959 Not specified

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JUL 08 2005

U.S.S.N. 09/852,837

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

*Serial No:* 09/852,837  
*Examiner:* Le, Lana  
*Art Group:* 2685  
*Reference No.:* EN11176  
*Appn. Filed:* May 10, 2001  
*Applicants:* Tan, Thok Lin et al.

*Title:* Audio Accessory Switching Circuit

July 7, 2005

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313

**Petition to Withdraw Holding of Abandonment Under 37 CFR §1.181**

Sir:

Applicants hereby petition for a withdrawal of the holding of abandonment per 37 C.F.R. § 1.181(a) for the application indicated above. As this petition is filed within 2 months from the notice of abandonment, no terminal disclaimer has been included.

On June 17, 2005, a Notice of Abandonment was mailed to Applicants for this case. The Notice of Abandonment indicated that the file was abandoned due to Applicant's failure to timely respond to an Office Action mailed September 29, 2004.

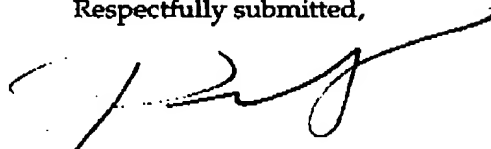
Applicants respectfully request that the holding of Abandonment be withdrawn for the following reason: Applicants timely submitted and Amendment and Response to the Office Action on November 23, 2004 via facsimile to 703-872-9306, which was within the three month time limit for response set forth in the Office Action. Applicants include herein a copy of the amendment, as well as the transmittal having a certificate of transmission attached thereto, and the facsimile confirmation sheet indicating successful transmission.

U.S.S.N. 09/852,837

CONCLUSION

As the Amendment/Reply was successfully transmitted via facsimile to the USPTO prior to the three month time limit, Applicants respectfully request that the Notice of Abandonment be withdrawn.

Respectfully submitted,

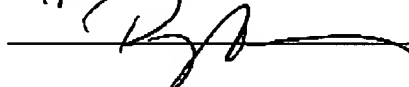


Philip H. Burrus, IV  
Attorney for Applicants  
Registration No. 45,432  
770-338-3614 (fax 3557)

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office, fax number 703-872-9306 on July 8, 2005.

Printed Name: Rebecca Padilla

Signed Name: 

Enclosures:

- Copy of Amendment transmitted on November 11, 2004
- Facsimile confirmation sheet indicating successful transmission to 703-872-9306

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 \*\*\* TX REPORT \*\*\*  
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## TRANSMISSION OK

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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing) Total Number of Pages in this Submission <u>8</u>	Application Number	09/852,837
	Filing Date	May 10, 2001
	First Named Inventor	Lin, et al.
	Group Art Unit	2685
	Examiner Name	Lana N. Le
	Attorney Docket Number	EN11178

ENCLOSURES		(check all that apply)
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/Declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Documents <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts Under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-Related papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CDs	<input type="checkbox"/> After Allowance Communication to a Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter with appropriate copies <input type="checkbox"/> Other Enclosure(s) (please identify below)
Remarks X Facsimile Transmittal <i>faxed to 703-872-9306 on 11/23/04</i>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual	Philip H. Burrus, IV	Registration No. 45,432
Signature	<i>[Signature]</i>	

<b>TRANSMITTAL FORM</b> <small>(to be used for all correspondence after initial filing)</small>	Application Number	09/852,837	
	Filing Date	May 10, 2001	
	First Named Inventor	Lin, et al.	
	Group Art Unit	2685	
	Examiner Name	Lana N. Le	
Total Number of Pages in this Submission	8	Attorney Docket Number	EN11176

ENCLOSURES		(check all that apply)
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/Declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Documents <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts Under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-Related papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CDs _____	<input type="checkbox"/> After Allowance Communication to a Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter with appropriate copies <input type="checkbox"/> Other Enclosure(s) (please identify below)
Remarks X Facsimile Transmittal <i>faxed to 703-872-9306 on 11/23/04</i>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual	Philip H. Burrus, IV	Registration No. 45,432
Signature	<i>[Signature]</i>	
Date	11/23/04	

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Typed or printed name	Philip H. Burrus, IV
Signature	<i>[Signature]</i>
Date	11/23/04

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007/013

Appl. No. 09/852,837

Amdt. Dated

Reply to Office Action of September 29, 2004

JUL 08 2005

Docket No. EN11176

Customer No. 27940

## 5460 UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S)	Lin, et al.	GROUP ART UNIT:	2685
APPLN. NO.:	09/852,837	EXAMINER:	Lana N. Le
FILED:	May 10, 2001	Confirmation No.	5460
TITLE:	AUDIO ACCESSORY SWITCHING CIRCUIT		

AMENDMENT

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This amendment is in response to an Office Action mailed September 29, 2004, a response thereto being due on or before December 29, 2004. In view of the remarks herein, Applicants respectfully request reconsideration of the above-identified patent application. The Commissioner is hereby authorized to charge any necessary fees, including fees for extensions of time, to Deposit Account Number 50-2117.

## CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office, fax number 703-~~872~~-~~920~~ on

1/23, 2004

Printed Name: Philip L. Rogers, IVSigned Name: [Signature]1  
EN11176

Appl. No. 09/852,837  
Amdt. Dated  
Reply to Office Action of September 29, 2004

Docket No. EN11176  
Customer No. 27940

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A switching circuit ~~comprising~~ consisting essentially of:
  - a. ~~at least one~~ a pair of accessory transistors, ~~the pair comprising two p-channel MOSFETs;~~
  - b. ~~at least one~~ a pair of phone transistors, ~~the pair comprising two n-channel MOSFETs;~~
  - c. ~~at least one~~ call control signal coupled to ~~both~~ the ~~at least one~~ pair of accessory transistors and the ~~at least one~~ pair of phone transistors;
  - d. at least one accessory channel coupled to the ~~at least one~~ pair of accessory transistors;
  - e. at least one phone audio bus coupled to the ~~at least one~~ pair of phone transistors;
  - f. a pair of pull-up resistors coupled to the pair of accessory transistors; and
  - g. ~~at least one~~ a pair of speakers;wherein when the call control signal is active, the at least one phone channel audio bus is coupled to the pair of speakers, and when the call control signal is not active, the at least one accessory channel is coupled to the ~~at least one~~ pair of speakers.
2. (Currently Amended) The circuit of claim 1, further comprising at least one microphone coupled to the ~~at least one~~ pair of phone transistors.
3. (Original) The circuit of claim 2, wherein the at least one accessory channel comprises a right audio channel and a left audio channel.



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4. (Currently Amended) The circuit of claim 3, wherein the at least one pair of speakers comprises a right speaker and a left speaker.
5. (Currently Cancelled) ~~The circuit of claim 4, wherein the at least one accessory transistor and the at least one phone transistor are selected from the group consisting of MOSFETs, BJTs, and JFETs.~~
6. (Currently Cancelled) ~~The circuit of claim 5, wherein the at least one accessory transistor and the at least one phone transistor are MOSFETs.~~
7. (Currently Canceled) ~~The circuit of claim 6, wherein the at least one accessory transistor is a p-channel MOSFET and the at least one phone channel transistor is a n-channel MOSFET.~~

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Amdt. Dated  
Reply to Office Action of September 29, 2004

Docket No. EN11176  
Customer No. 27940

### **REMARKS/ARGUMENTS**

#### **Specification:**

The most recent Office Action (OA) states that a summary of the invention is missing. Applicants respectfully submit that a summary, identified in the specification as such, is optional. Applicants respectfully submit that according to MPEP §601.01, an application is complete when it is filed "...containing a description pursuant to § 1.71 and at least one claim pursuant to § 1.75, and any drawing required by § 1.81(a) are filed in the Patent and Trademark Office." As Applicants have included a description in accordance with §1.71, at least one claim and drawings. As such, Applicants respectfully submit that the application is complete.

Applicants note that 37 CFR §1.71 states the following:

a) The specification must include a written description of the invention or discovery and of the manner and process of making and using the same, and is required to be in such full, clear, concise, and exact terms as to enable any person skilled in the art or science to which the invention or discovery appertains, or with which it is most nearly connected, to make and use the same.

(b) The specification must set forth the precise invention for which a patent is solicited, in such manner as to distinguish it from other inventions and from what is old. It must describe completely a specific embodiment of the process, machine, manufacture, composition of matter or improvement invented, and must explain the mode of operation or principle whenever applicable. The best mode contemplated by the inventor of carrying out his invention must be set forth.

Applicants respectfully submit that neither 37 CFR §1.71 or in MPEP §601.01, which defines a complete specification, requires a specifically designated summary section in the specification. Applicants note that numerous patents, including patent Nos. 6,798,174; 6,798,168; 6,797,427; 6,782,099; and 6,771,051 have issued without summary sections in the description. Applicants respectfully request reconsideration of the objection in light of these comments.

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Claims 1-4 remain in the application.

Claim 1 is objected to because of the following informalities: -- the at least phone channel-- of line 9 doesn't have a prior disclosure in the claim, but only "at least one phone audio bus" is discussed in line 7.

Applicants kindly thank the Examiner for the amendment suggestion. The Examiner is correct in presuming that "phone channel" was an inadvertent typographical error, in that it should be -- phone audio bus -- as recited in element "e" of the claim. Applicants have amended the claim to provide proper antecedent basis for line 9. Applicants have additionally inserted commas as suggested by the OA. Applicants respectfully request reconsideration of the objections in light of the amendments.

Claims 1-7 are rejected under 35 USC 103(a) as being unpatentable over Hsieh (USPN 4,993,061) in view of Chen (USPN 6,349,223) and further in view of Adams (USPN 6,594,366).

Applicants have canceled claims 5-7. Applicants have amended claim 1 in a variety of ways: First, the transitional term has been amended from "comprising" to -- consisting essentially of --. Next, the at least one accessory transistor at least one phone transistor have been amended to recite p and n channel MOSFETs. Support for these amendments are found in the claims as originally filed, and in FIG. 1.

In light of the amendments, Applicants respectfully traverse the rejection. Applicants respectfully submit that there is no suggestion in any of the references to reduce the part count of the complex circuits found in Hsieh, Chen and Adams to the simple, four transistor circuit claimed by Applicants. Applicants' simple structure is pointed out in the claims with the transitional term "consisting essentially of". Applicants note that Hsieh teaches an electronic circuit in which sophisticated integrated circuits are used in combination (e.g., IC31-2 and IC31-4 must work in harmony). Chen teaches a complex switching block. Adams teaches single throw switches. Applicants teach a simple, four transistor circuit which is lower in cost and more efficient than is a combination of Hsieh, Chen and Adams.

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Additionally, Applicants respectfully submit that the control signal in Applicants' claims is different from the switching signal of Hsieh, which is cited as the switching signal of the combination. Specifically, Applicants' control signal is active or inactive, as it is a voltage based signal that is active high or active low. (Claim 1, wherein clause and page 3, lines 15-20.) By contrast, the switching signal of Hsieh is a frequency based signal. (Hsieh, col. 3, lines 52-56.) As such, Applicants' claimed invention accommodates a much wider array of peripheral devices, and employs a simpler, more cost effective circuit than Hsieh. (Note also that the switching signals of both Chen and Adams are different as well. The Chen interconnects the phone and the car stereo system by way of a specific cable custom made for a particular phone model. Adams interconnects the phone and headset via a sensing circuit which uses different impedances to sense the use of the headset and or the phone. Applicants' claimed invention is distinct, in addition to being both simpler and less expensive.) Applicants respectfully request reconsideration of the claims in light of the amendment.

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Amdt. Dated  
Reply to Office Action of September 29, 2004

Docket No. EN11176  
Customer No.: 27940

**CONCLUSION**

For the above reasons, Applicants believe the specification and claims are now in proper form, and that the claims all define patentably over the prior art. Applicants believe this application is now in condition for allowance, for which they respectfully submit.

Respectfully submitted,

**SEND CORRESPONDENCE TO:**

Motorola, Inc.  
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